Clinical Infectious Diseases

Volume 16 • Number 1 *January 1993*

State-of-the-Art Clinical Article

1 Treatment of Opportunistic Fungal Infections
Donald Armstrong

Clinical Infectious Disease Articles

10 Decline of Clinical Hepatitis B in Workers at a General Hospital: Relation to Increasing Vaccine-Induced Immunity
Bruce P. Lanphear, Calvin C. Linnemann, Jr., Constance G. Cannon, and Martha M. DeRonde

15 Myositis Due to *Pleistophora* (Microsporidia) in a Patient with AIDS
Geoffrey L. Chupp, Joseph Alroy, Lester S. Adelman, Joan C. Breen, and Paul R. Skolnik

22 Intramuscular Pentamidine for the Prevention of *Pneumocystis carinii* Pneumonia in Patients Infected with Human Immunodeficiency Virus
Tony W. Cheung, Ray Matta, Eric Neibart, Glenn Hammer, Eileen Chusid, Henry S. Sacks, Susan Szabo, and David Rose

26 Infected Urachal Remnants in the Adult: Case Report and Review
Thomas T. Ward, Edward Saltzman, and Seine Chiang

30 *Curvularia lunata* Endocarditis Treated with Terbinafine: Case Report
Charles S. Bryan, Claude W. Smith, Deborah E. Berg, and Robert B. Karp

33 Clinical Gnathostomiasis: Case Report and Review of the English-Language Literature
Janice M. Rusnak and Daniel R. Lucey

51 Cellulitis Caused by *Legionella pneumophila*
Matthew K. Waldor, Brian Wilson, and Morton Swartz

54 Blastomycosis in Transplant Recipients: Report of a Case and Review
Jonathan S. Serody, Michael R. Mill, Frank C. Detterbeck, Diane T. Harris, and Myron S. Cohen

59 Fatal Respiratory Disease Due to *Corynebacterium diphtheriae*: Case Report and Review of Guidelines for Management, Investigation, and Control
Karen M. Farizo, Peter M. Strebel, Robert T. Chen, Anita Kimbler, Timothy J. Cleary, and Stephen L. Cochi

69 *Aeromonas hydrophila* Infections of Skin and Soft Tissue: Report of 11 Cases and Review
W. L. Gold and I. E. Salit

75 Colonization and Cross-Colonization of Nursing Home Patients with Trimethoprim-Resistant Gram-Negative Bacilli
E. Wingard, J. H. Shlaes, E. A. Mortimer, and D. M. Shlaes

82 Molecular Analysis of Multiply Recurrent Meningitis Due to *Escherichia coli* K1 in an Infant
E. Bingen, H. Cavé, Y. Aujard, N. Lambert-Zechovsky, P. Desjardins, J. Elion, and E. Denamur

86 Asymptomatic Infections Due to Wild-Type Rotavirus May Prime for a Heterotypic Response to Vaccination with Rhesus Rotavirus
Michael E. Pichichero and Genevieve A. Losonsky

93 Vaginitis Due to *Saccharomyces cerevisiae*: Epidemiology, Clinical Aspects, and Therapy
J. D. Sobel, J. Vazquez, M. Lynch, C. Meriwether, and M. J. Zervos

100 Clinical Spectrum of Nonmenstrual Toxic Shock Syndrome (TSS): Comparison with Menstrual TSS by Multivariate Discriminant Analyses
Kevin C. Kain, Michael Schulzer, and Anthony W. Chow

107 Disseminated Atypical Blastomycosis in Two Patients with AIDS
Grace Tan, Leo Kaufman, Ellena M. Peterson, and Luis M. de la Maza

112 Agrobacterium Infections in Humans: Experience at One Hospital and Review
Michelle Hulse, Stuart Johnson, and Patricia Ferrieri

118 Fatal Disseminated Infection with *Aspergillus terreus* in Immunocompromised Hosts
Denise M. Tritz and Gail L. Woods

123 Treatment of *Strongyloides stercoralis* Hyperinfection Syndrome with Thiabendazole Administered per Rectum
Daniel J. Boken, Patrick A. Leoni, and Laurel C. Preheim

127 Malaria During Pregnancy: Neonatal Morbidity and Mortality and the Efficacy of Chloroquine Chemoprophylaxis
Paul Nyirjesy, Thembo Kavasya, Peter Axelrod, and Philip R. Fischer

Notes

133 Tongue Abscess: Case Report and Review
Michael Sands, Joseph Pepe, and Richard B. Brown

136 Clinical Characteristics of Seven Cases of Diarrhea Associated with a Novel Acid-Fast Organism in the Stool
Rebecca M. Wurtz, Frank E. Kocka, Caryn S. Peters, C. Michael Weldon-Linne, Alex Kuritza, and Peggy Yungbluth

139 Ventricular CSF Shunt Infections Associated with *Corynebacterium jeikeium*: Report of Three Cases and Review
Karl A. Greene, Robert J. Clark, and Joseph M. Zabramski

142 Cytomegalovirus-Induced Hemorrhagic Cystitis Following Bone Marrow Transplantation
David H. Spach, J. Eric Bauwens, David Myerson, Mahmoud M. Mustafa, and Raleigh A. Bowden

145 The Enigma of Candiduria: Evolution of Bladder Irrigation with Amphotericin B for Management—From Anecdote to Dogma and a Lesson from Machiavelli
Jay P. Sanford

148 Catheter-Related *Fusarium solani* Fungemia and Pulmonary Infection in a Patient with Leukemia in Remission
Linda K. Ammari, Jennifer M. Puck, and Karin L. McGowan

International Reports

151 Report of a Workshop on Respiratory Viral Infections: Epidemiology, Diagnosis, Treatment, and Prevention
Kenneth McIntosh, Pekka Halonen, and Olli Ruuskanen

165 Duration and Efficacy of Immune Response to Hepatitis B Vaccine in High-Risk Chinese Adolescents
Zhang Mintai, Lie Kezhou, Ding Lieming, and Raymond A. Smego, Jr.

Classic in Infectious Diseases

168 Paralysis by Ticks
Ch. Garin and A. Bujadoux

Correspondence

170 Disseminated Infection Due to *Acremonium* Species in a Patient with Addison's Disease
William R. Jeffrey, Jaime E. Hernandez, Antonio L. Zarraga, Gretchen E. Oley, and Lynn W. Kitchen

171 Hepatic and Pulmonary Pneumocystosis During Primary Prophylaxis for *Pneumocystis carinii* Pneumonia with Dapsone/Pyrimethamine
Daniel Podzamczer, Angeles Martos, Isidro Ferrer, Miguel Santin, and Francisco Gudiol

172 Mediastinitis Due to Multiply Resistant *Corynebacterium xerosis*
O. Lortholary, A. Buu-Hoï, J. Y. Fagon, J. Pierre, M. Slama, L. Gutmann, and J. F. Acar

173 Association Between *Eikenella corrodens* and Streptococci
Jan A. Jacobs, Gys D. Algie, George H. Sie, and Ellen E. Stobberingh

174 Why Did Infection with *Aeromonas hydrophila* Occur When Water Contains So Many Other Microorganisms?
Vincent Cailleaux, Marie-Jeanne Dupont, Bernard Hory, Daniel Amsallem, and Yvon Michel-Briand

175 Use of Gentamicin for Treatment of Enterococcal Infections
Thaddeus Zajdowicz

175 Reply
David W. Megran

175 A Severe Systemic Reaction to Trimethoprim-Sulfamethoxazole in a Patient Infected with the Human Immunodeficiency Virus
Gregory J. Martin, Scott F. Paparello, and Catherine F. Decker

176 *Achromobacter xylosoxidans* Osteomyelitis
Robert D. Walsh, Natalie C. Klein, and Burke A. Cunha

178 A Severe Hypersensitive Reaction to Trimethoprim-Sulfamethoxazole in a Patient Infected with Human Immunodeficiency Virus
Jacqueline S. Marinac and James F. Stanford

179 Unusual Manifestations of Miliary Tuberculosis: Cutaneous Lesions, Phalanx Osteomyelitis, and Paradoxical Expansion of Tenosynovitis
Xavier Corbella, Jordi Carratala, Gabriel Rufi, and Francesc Gudiol

181 Facial Palsy, Meningococcal Meningitis, and Reactivation of Herpes Simplex Virus
Neil M. Steven and Dilip Nathwani

182 Hepatitis C Virus Infection and Progression of Infection Due to Human Immunodeficiency Virus
Josep M. Llibre, Enric Garcia, Andreu Aloy, and Jordi Valls

183 Cure of Rhizopus Sinusitis in a Liver Transplant Recipient with Liposomal Amphotericin B
W. Munckhof, R. Jones, F. A. Tosolini, A. Marzec, P. Angus, and M. L. Grayson

184 Endocarditis Due to *Neisseria mucosa*
Mark D. Anderson and Larry K. Miller

185 Use of Mefloquine for Malarial Chemoprophylaxis in Its First Year of Availability in the United States
Phyllis Kozarsky and Molly Eaton

186 Magnetic Resonance Imaging in Listerial Brain Stem Encephalitis
Anna Faidas, Douglas L. Shepard, James Lim, Jeffery E. Nelson, and Larry M. Baddour

188 Pulmonary T-Cell Lymphoma in a Patient with the Acquired Immunodeficiency Syndrome
Robert Colebunders, Veerle Mertens, Koenraad Blot, Ingrid Neetens, Eric Van Marck, Jean Batungwanayo, and Henry Taelman

189 Oral Ciprofloxacin Therapy for *Bacillus cereus* Wound Infection and Bacteremia
Sandra Abadie Kemmerly and George A. Pankey

190 Acute Abdominal Pain as a Presenting Symptom of Varicella-Zoster Virus Infection in Recipients of Bone Marrow Transplants
Leo F. Verdonck, Jan J. Cornelissen, Adriaan W. Dekker, and Maja Rozenberg-Arska

192 **Notices**

196 **Statement of Editorial Policy**

Volume 16 • Number 2 *February 1993*

State-of-the-Art Clinical Article

199 Contemporary Infectious Exanthems
James D. Cherry

Clinical Infectious Disease Articles

208 Varicella-Zoster Virus Retinitis in a Patient with AIDS-Related Complex: Case Report and Brief Review of the Acute Retinal Necrosis Syndrome
Walter C. Hellinger, James P. Bolling, Thomas F. Smith, and R. Jean Campbell

213 Typhoid Fever in Ethiopian Immigrants to Israel and Native-Born Israelis: A Comparative Study
Yehuda Carmeli, Raul Raz, Jonathan M. Schapiro, and Michael Alkan

216 Long-Standing Bacteremia Caused by Oral *Actinobacillus actinomycetemcomitans* in a Patient with a Pacemaker
A. J. van Winkelhoff, B. P. Overbeek, M. J. A. M. P. Pavičić, J. P. A. van den Bergh, J. P. M. G. Ernst, and J. de Graaff

219 Ten-Year Experience with Artificial Pneumoperitoneum for End-Stage, Drug-Resistant Pulmonary Tuberculosis
Annette T. Nitta, Michael D. Iseman, John D. Newell, Lorie A. Madsen, and Marian Goble

223 Splenic Complications in Malaria: Case Report and Review
Barry S. Zingman and Brant L. Viner

233 Painful Gingivitis May Be an Early Sign of Infection with the Human Immunodeficiency Virus
Randal W. Rowland, Mario R. Escobar, Richard B. Friedman, and Lisa G. Kaplowitz

237 Meningococcal Disease in the Netherlands, 1958–1990: A Steady Increase in the Incidence Since 1982 Partially Caused by New Serotypes and Subtypes of *Neisseria meningitidis*
Rob J. P. M. Scholten, Henk A. Bijlmer, Jan T. Poolman, Betsy Kuipers, Dominique A. Caugant, Loek Van Alphen, Jacob Dankert, and Hans A. Valkenburg

247 The Natural History of Coccidioidal Meningitis: VA–Armed Forces Cooperative Studies, 1955–1958
Tom Vincent, John N. Galgiani, Milton Huppert, and David Salkin

255 Successful Treatment of *Trypanosoma cruzi* Encephalitis in a Patient with Hemophilia and AIDS
Aldo Solari, Hernan Saavedra, Cecilia Sepúlveda, David Oddó, Guillermo Acuña, Jaime Labarca, Sergio Muñoz, Gérard Cuny, Cecille Brengues, Francisco Veas, and Ralph T. Bryan

260 Serum Adenosine Deaminase 2 and Neopterin Levels Are Increased in a Majority of Hemophiliacs Irrespective of Infection with Human Immunodeficiency Virus Type 1
Juzo Matsuda, Miyo Tsukamoto, Kengo Gohchi, Noriko Saitoh, Kazuo Kawasugi, and Tadatoshi Kinoshita

265 *Alternaria:* A Sinonasal Pathogen of Immunocompromised Hosts
Vicki A. Morrison and Daniel J. Weisdorf

271 Infective Endocarditis Due to Nontoxigenic *Corynebacterium diphtheriae:* Report of Seven Cases and Review
Susan M. Tiley, Katherine R. Kociuba, Leon G. Heron, and Rosemary Munro

276 Pertussis in Missouri: Evaluation of Nasopharyngeal Culture, Direct Fluorescent Antibody Testing, and Clinical Case Definitions in the Diagnosis of Pertussis
Peter M. Strebel, Stephen L. Cochi, Karen M. Farizo, Beverley J. Payne, Sandra D. Hanauer, and Andrew L. Baughman

Notes

286 Inhibition of the Scarlet Fever Exanthem in Concurrent Varicella and Group A Streptococcus Infection
Michael A. Friedman, Joel D. Klein, and Stephen C. Eppes

288 Menstrual Toxic Shock Syndrome Complicated by Persistent Bacteremia: Case Report and Review
Mark A. Crowther and Edward D. Ralph

290 Neurocysticercosis in a Child with No History of Travel Outside the Continental United States
Benjamin A. Kruskal, Lisa Moths, and David W. Teele

293 A Case of *Ureaplasma urealyticum* Septic Arthritis in a Patient with Hypogammaglobulinemia
Pierre Forgacs, Ruth B. Kundsin, Steven W. Margles, Mark L. Silverman, and Robert E. Perkins

295 Nutritional Status of Children with Dengue Hemorrhagic Fever
Usa Thisyakorn and Suchitra Nimmannitya

298 Use of Paromomycin for Treatment of Cryptosporidiosis in Patients with AIDS
Carl J. Fichtenbaum, David J. Ritchie, and William G. Powderly

301 Oral Candidiasis Is Associated with Low Levels of Parotid Calprotectin in Individuals with Infection Due to Human Immunodeficiency Virus
Fredrik Müller, Stig S. Frøland, Per Brandtzaeg, and Magne K. Fagerhol

Review Article

303 Pyogenic Liver Abscess Involving *Actinomyces:* Case Report and Review
Michael I. Miyamoto and Ferric C. Fang

International Report

310 A Serological Survey and Review of Clinical Lyme Borreliosis in Spain
Pedro Anda, Isabel Rodríguez, Asia de la Loma, Maria V. Fernández, and Alvaro Lozano

Historical Article

320 History of Malaria in the United States Naval Forces at War: World War I Through the Vietnam Conflict
Christine Beadle and Stephen L. Hoffman

Correspondence

330 Treatment of Infections Due to Enterococci with High-Level Gentamicin Resistance and Streptomycin Susceptibility
Mondira Bhattacharya and John R. Warren

331 Reply
Roland Leclercq, Sylvie Dutka-Malen, Anne Brisson-Noël, Catherine Molinas, Eliane Derlot, Michel Arthur, and Patrice Courvalin

332 Pancreatic Tuberculosis as a Manifestation of Infection with the Human Immunodeficiency Virus
W. A. Eyer-Silva, C. A. Moraid de Sá, J. F. C. Pinto, and C. A. M. Gameiro

332 Human Anisakiasis Misdiagnosed as Abdominal Angiostrongyliasis
Lawrence R. Ash

333 Reply
Tim V. Hulbert, Robert A. Larsen, and P. T. Chandrasoma

334 Community-Acquired Meningitis Due to Penicillin-Resistant *Streptococcus pneumoniae*
D. N. C. Tsang, R. W. M. Lai, and K. C. Lee

335 Administration of Immune Serum Globulin Following Exposure to Hepatitis C Virus
Mark A. Miller, Pearl Orenstein, and Barbara Amihod

336 Diagnosis of Perirectal *Pneumocystis carinii* Infection by Direct Immunofluorescence
Brian P. Buggy

337 Oral Ofloxacin: A Critical Review of the New Drug Application
Alphonse Pfau

338 Reply
W. Eugene Sanders, Jr.

338 *Aureobasidium pullulans* Septicemia
L. S. Girardi, R. Malowitz, G. T. Tortora, and E. D. Spitzer

339 *Vibrio parahaemolyticus* Septicemia Associated with Water-Skiing
Bonnie L. Rabinowitch, Myung H. Nam, Charles S. Levy, and Margo A. Smith

340 Determination of the Pathogenicity of *Entamoeba histolytica*
Karim A. Adal, Kendra Kress, and William A. Petri, Jr.

341 Inclusion of Severely Immunocompromised Patients in Studies Assessing Antibiotic Efficacy
E. J. Harder, K. E. Bowen, and R. N. Greenberg

341 Exfoliative Dermatitis During Malarial Prophylaxis with Mefloquine
Gregory J. Martin, Joseph L. Malone, and E. Victor Ross

342 Poliovirus in Cerebrospinal Fluid from an Infant with Adenovirus Infection
Isamu Mori, Shozo Torii, Yoshiyuki Mochida, Yasuko Hatano, and Hiroshi Nagafuji

343 Endocarditis Due to *Staphylococcus capitis* subspecies *ureolyticus*
Miguel Latorre, Pedro M. Rojo, Ricardo Franco, and Ramón Cisterna

344 Cryptosporidiosis in Tourists Returning from Egypt and the Island of Mauritius
S. Gatti, C. Cevini, A. Bruno, A. M. Bernuzzi, and M. Scaglia

346 **Notices**

346 **IDSA Position Paper (December 1992 issue): New Address for Reprint Requests**

347 **Statement of Editorial Policy**

Instructions to Authors

Volume 16 • Supplement 1 *February 1993*

CLINICAL PERSPECTIVES IN THE TREATMENT OF HIV DISEASE: THE ROLE OF DIDANOSINE

S1 Introduction
Lawrence Corey

S2 The Natural History of HIV Infection: Implications for the Assessment of Antiretroviral Therapy
Lawrence Corey and Robert W. Coombs

S7 Nucleoside Analogs: Similarities and Differences
Jean-Pierre Sommadossi

S16 In Vitro Antiviral Activity of Didanosine Compared with That of Other Dideoxynucleoside Analogs Against Laboratory Strains and Clinical Isolates of Human Immunodeficiency Virus
M. J. M. Hitchcock

S22 Surrogate Markers in AIDS Clinical Trials: Conceptual Basis, Validation, and Uncertainties
Stephen W. Lagakos

S26 Relation Between Plasma Concentrations of Didanosine and Markers of Antiviral Efficacy in Adults with AIDS or AIDS-Related Complex
Mohan Beltangady, Catherine A. Knupp, Nancy Gustafson, Rashmi H. Barbhaiya, Raphael Dolin, Mindell Seidlin, Timothy P. Cooley, and Marcel Rozencweig

S32 Longitudinal Analysis of Responses to Oral Didanosine Therapy Following Zidovudine Therapy in Advanced Infection with Human Immunodeficiency Virus
Colin McLaren, Marcel Rozencweig, Mohan Beltangady, Claude Nicaise, Robert Yarchoan, Raphael Dolin, J. Davis Allan, Timothy P. Cooley, Mindell Seidlin, and Laurie F. Smaldone

S40 Didanosine: Long-Term Follow-Up of Patients in a Phase 1 Study
John S. Lambert, Mindell Seidlin, Fred T. Valentine, Richard C. Reichman, and Raphael Dolin

S46 Long-Term Follow-Up of Didanosine Administered Orally Twice Daily to Patients with Advanced Human Immunodeficiency Virus Infection and Hematologic Intolerance of Zidovudine
J. Davis Allan, Kevin J. Connolly, Helen Fitch, Lenore Jackson-Pope, Colin McLaren, Renzo Canetta, and Jerome E. Groopman

S52 Didanosine in the Treatment of AIDS and AIDS-Related Complex: A Critical Appraisal of the Dose and Frequency of Administration
Howard A. Liebman and Timothy P. Cooley

S59 Use of Didanosine in Zidovudine-Intolerant Patients Infected with Human Immunodeficiency Virus
Mark R. Nelson, Graeme J. Moyle, and Brian G. Gazzard

S63 The Didanosine Expanded Access Program: Safety Analysis
Isadore M. Pike and Claude Nicaise

S69 Tolerability of Combined Ganciclovir and Didanosine for the Treatment of Cytomegalovirus Disease Associated with AIDS
Mark A. Jacobson, William Owen, James Campbell, Carol Brosgart, and Donald I. Abrams

Volume 16 • Number 3 *March 1993*

State-of-the-Art Clinical Article

349 Coccidioidomycosis: New Aspects of Epidemiology and Therapy
Hans E. Einstein and Royce H. Johnson

AIDS Commentary

357 Arguments Against the Chemoprophylactic Use of Zidovudine Following Occupational Exposure to the Human Immunodeficiency Virus
Edward N. Robinson, Jr.

Clinical Infectious Disease Articles

361 Malaria in Splenectomized Patients: Report of Four Cases and Review
Sornchai Looareesuwan, Pravan Suntharasamai, H. Kyle Webster, and May Ho

367 Diagnosis of *Helicobacter pylori* Infection by Means of a Polymerase Chain Reaction Assay for Gastric Juice Aspirates
T. Ulf Westblom, Suhas Phadnis, Peter Yang, and Steven J. Czinn

372 Outbreak of *Pseudomonas aeruginosa* Infections in a Surgical Intensive Care Unit: Probable Transmission via Hands of a Health Care Worker
A. F. Widmer, R. P. Wenzel, A. Trilla, M. J. Bale, R. N. Jones, and B. N. Doebbeling

377 Comparison of Pulsed-Field Gel Electrophoresis with Isoenzyme Profiles as a Typing System for *Candida tropicalis*
Bradley N. Doebbeling, Paul F. Lehmann, Richard J. Hollis, Lung-Chi Wu, Andreas F. Widmer, Andreas Voss, and Michael A. Pfaller

384 Zoonotic Transmission of Sporotrichosis: Case Report and Review
Kurt D. Reed, Frances M. Moore, Garrel E. Geiger, and Mary E. Stemper

388 *Agrobacterium radiobacter:* A Recently Recognized Opportunistic Pathogen
Michael B. Edmond, Sharon A. Riddler, Carla M. Baxter, Brian M. Wicklund, and A. William Pasculle

392 Fatal Encephalitis Caused by Concomitant Infection with Tick-Borne Encephalitis Virus and *Borrelia burgdorferi*
Jarmo Oksi, Matti K. Viljanen, Hannu Kalimo, Reijo Peltonen, Reijo Marttila, Pirkko Salomaa, Jukka Nikoskelainen, Herbert Budka, and Pekka Halonen

397 Successful Treatment of Visceral Leishmaniasis with Allopurinol plus Ketoconazole in a Renal Transplant Recipient after the Occurrence of Pancreatitis Due to Stibogluconate
M. A. Halim, O. Alfurayh, M. E. Kalin, S. Dammas, A. Al-Eisa, and G. Damanhouri

400 Interaction of Itraconazole and Digoxin
Mark K. Sachs, Lourdes M. Blanchard, and Paul J. Green

404 Sinusitis Due to *Pseudomonas aeruginosa* in Patients with Human Immunodeficiency Virus Infection
James G. O'Donnell, Alfred F. Sorbello, David V. Condoluci, and Michael J. Barnish

407 Outbreak of *Pseudomonas cepacia* Bacteremia in Oncology Patients
David A. Pegues, Loretta A. Carson, Roger L. Anderson, Michael J. Norgard, Terry A. Argent, William R. Jarvis, and Charles H. Woernle

412 Isolation of a Nicotinamide-Requiring Clone of *Escherichia coli* O18:K1:H7 from Women with Acute Cystitis: Resemblance to Strains Found in Neonatal Meningitis
Calvin M. Kunin, Tong Hua Hua, Chandradekar Krishnan, Laura Van Arsdale White, and Jorg Hacker

417 Evaluation of Pentamidine for the Treatment of Cutaneous Leishmaniasis in Colombia
Jaime Soto-Mancipe, Max Grogl, and Jonathan D. Berman

426 Environmental Mycobacterial Peritonitis Complicating Peritoneal Dialysis: Three Cases and Review
Amin Hakim, Nicole Hisam, and Peter D. Reuman

Notes

432 Necrotizing Pancreatitis and Multisystem Organ Failure Associated with Toxoplasmosis in a Patient with AIDS
Sunil K. Ahuja, Seema S. Ahuja, William Thelmo, Andrew Seymour, and Kenneth R. Phelps

435 Staphylococcal Meningitis Can Present as an Abscess of a Single Lateral Ventricle
Edward N. Robinson, Jr.

439 Prosthetic Hip Infection and Bacteremia Due to *Campylobacter jejuni* in a Patient with AIDS
Michael C. Peterson, R. Wesley Farr, and Mary Castiglia

441 Infection Due to *Klebsiella rhinoscleromatis* in Two Patients Infected with Human Immunodeficiency Virus
Carle Paul, Gilles Pialoux, Bertrand Dupont, Jean Fleury, Gustavo Gonzalez-Canali, Muriel Eliaszewicz, Philippe Sansonetti, and Thierry Genereau

Correspondence

443 Acute Gastroenteritis Caused by *Hafnia alvei* in Children
Jordi Reina, Juan Hervas, and Nuria Borrell

444 Group A Streptococcal Sepsis Secondary to Acute Salpingitis
William B. Barham, Richard L. Haberberger, and Catherine F. Decker

445 Pulmonary Infection Due to *Exophiala jeanselmei*: Successful Treatment with Ketoconazole
Farrin A. Manian and Michael J. Brischetto

446 Septic Arthritis Due to *Corynebacterium diphtheriae*
Richard Damade, Jacques Pouchot, Isabelle Delacroix, Yves Boussougant, and Philippe Vinceneux

448 **Notices**

Instructions to Authors

Volume 16 • Supplement 2 *March 1993*

HOST FACTORS IN RESISTANCE TO INFECTIOUS DIARRHEA

S75 Introduction
Kazumine Kobari

S76 Introduction: Nonimmunologic Mechanisms
John P. Craig

S77 Ecological Study on the Intestinal Bacterial Flora of Patients with Diarrhea
Seiki Tazume, Atsushi Ozawa, Takako Yamamoto, Yasuyuki Takahashi, Koichi Takeshi, Suleiman M. Saidi, Catherine G. Ichoroh, and Peter G. Waiyaki

S83 Biochemical and Genetic Basis for the ETS (Enterotoxin Sensitivity) Phenotype in Mice
S. H. Richardson, T. Sexton, J. Rader, and C. Kajs

S92 Proteolytic Enhancement of Human Rotavirus Infectivity
Tasuke Konno, Hiroshi Suzuki, Setsuko Kitaoka, Tetsuo Sato, Norio Fukuhara, Osamu Yoshie, Kenji Fukudome, and Yoshio Numazaki

S98 Genetic Studies of Human and Murine Giardiasis
Ian C. Roberts-Thomson

S105 Introduction: Immunologic Mechanisms
William B. Greenough III

S106 Induction and Assessment of Immunity at Enteromucosal Surfaces in Humans: Implications for Vaccine Development
Cecil Czerkinsky, Ann-Mari Svennerholm, and Jan Holmgren

S117 Virological and Serological Aspects of Immune Resistance to Rotavirus Gastroenteritis
S. Chiba, S. Nakata, S. Ukae, and N. Adachi

S122 Diarrhea in Helminthic Infections
Robert M. Genta

Volume 16 • Supplement 3 *March 1993*

S131 Editor's Comments
Sydney M. Finegold

S132 The Endemic Infectious Diseases of Somalia
Edward C. Oldfield III, Guénaël R. Rodier, and Gregory C. Gray

Volume 16 • Number 4 *April 1993*

State-of-the-Art Clinical Article

449 Malaria: Overview and Update
David J. Wyler

AIDS Commentary

459 "AIDS-ology": An Interventional Specialty
Abraham Verghese

Clinical Infectious Disease Articles

463 Disseminated Infection with Rapidly Growing Mycobacteria
Christopher W. Ingram, David C. Tanner, David T. Durack, G. Wallace Kernodle, Jr., and G. Ralph Corey

472 Tularemia from a Cat Bite: Case Report and Review of Feline-Associated Tularemia
J. Capellan and I. W. Fong

476 Significant Recovery of Nonsporulating Anaerobic Rods from Clinical Specimens
Itzhak Brook and Edith H. Frazier

481 Primary Actinomycotic Endocarditis: Case Report and Review
Sing Lam, Joshua Samraj, Shafiqur Rahman, and Eileen Hilton

486 Infection of an Arterial Prosthesis as the Presenting Manifestation of Disseminated Coccidioidomycosis: Control of Disease with Fluconazole
David N. Schwartz, Stephan D. Fihn, and Richard A. Miller

489 Q Fever Meningoencephalitis in a Soldier Returning from the Persian Gulf War
Mark A. Ferrante and Matthew J. Dolan

497 Fatal Noncutaneous Visceral Infection with Varicella-Zoster Virus in a Patient with Lymphoma after Autologous Bone Marrow Transplantation
S. M. Stemmer, K. Kinsman, S. Tellschow, and R. B. Jones

500 Trichinosis with Ventilatory Failure and Persistent Myocarditis
Steve J. Compton, Connie L. Celum, Colin Lee, Dianne Thompson, Shuzo M. Sumi, Thomas R. Fritsche, and Robert W. Coombs

505 Nocardiosis in Renal Transplant Recipients Undergoing Immunosuppression with Cyclosporine
Roberto C. Arduino, Philip C. Johnson, and Abraham G. Miranda

513 Epidemiology of Extrapulmonary Tuberculosis Among Persons with AIDS in the United States
Laurence Slutsker, Kenneth G. Castro, John W. Ward, and Samuel W. Dooley, Jr.

519 Predictive Value of Bronchoalveolar Lavage in Excluding a Diagnosis of *Pneumocystis carinii* Pneumonia During Prophylaxis with Aerosolized Pentamidine
Adrian U. Teuscher, Milos Opravil, Robert Theiler, Ruedi Speich, Herbert Kuster, Walter Siegenthaler, Erich W. Russi, and Ruedi Lüthy

523 Variation in Phenotypic Expression of the Opa Outer Membrane Protein and Lipooligosaccharide of *Neisseria meningitidis* Serogroup C Causing Periorbital Cellulitis and Bacteremia
Christian C. Patrick, Glenn T. Furuta, Morven Edwards, Michele Estabrook, Milan S. Blake, and Carol J. Baker

528 Concomitant Amphotericin B Therapy, Granulocyte Transfusions, and GM-CSF Administration for Disseminated Infection with *Fusarium* in a Granulocytopenic Patient
Ricardo T. Spielberger, Marc J. Falleroni, Amy J. Coene, and Richard A. Larson

531 Soft-Tissue Infection Due to *Mycobacterium smegmatis:* Report of Two Cases
James A. Newton, Jr., Peter J. Weiss, William A. Bowler, and Edward C. Oldfield III

534 Measurement of Levels of Tumor Necrosis Factor-α and Interleukin-1β in the CSF of Patients with Meningitis of Different Etiologies: Utility in the Differential Diagnosis
L. F. López-Cortés, M. Cruz-Ruiz, J. Gómez-Mateos, D. Jiménez-Hernández, J. Palomino, and E. Jiménez

Review Articles

540 Extrapulmonary and Disseminated Infections Due to *Mycobacterium malmoense:* Case Report and Review
Michael Zaugg, Max Salfinger, Milos Opravil, and Ruedi Lüthy

550 Persistent Fever Due to Occult Dental Infection: Case Report and Review
Kerry Siminoski

Notes

555 A Cutaneous Lesion in a Patient with AIDS: An Unusual Presentation of Infection Due to *Mycobacterium avium* Complex
Jennifer A. Clark and David M. Margolis

558 Experience at a Referral Center for Patients with Suspected Lyme Disease in an Area of Nonendemicity: First 65 Patients
David R. Burdge and David P. O'Hanlon

International Reports

561 Antimicrobial Susceptibility Patterns and Resistance Transferability Among *Bacteroides fragilis* Group Isolates from Patients with Appendicitis in Bali, Indonesia
Ketut Suata, Kunitomo Watanabe, Kazue Ueno, and Morio Homma

567 Course and Outcome of Bacteremia Due to *Staphylococcus aureus:* Evaluation of Different Clinical Case Definitions
Stephan Lautenschlager, Christian Herzog, and Werner Zimmerli

574 Spectrum of Extraintestinal Disease Due to *Aeromonas* Species in Tropical Queensland, Australia
K. A. Kelly, J. M. Koehler, and L. R. Ashdown

Historical Article

580 Infectious Diseases During the Civil War: The Triumph of the "Third Army"
Jeffrey S. Sartin

Correspondence

585 A Case of Chronic Progressive Rhinocerebral Mucormycosis Treated with Liposomal Amphotericin B and Surgery
M. Ericsson, M. Anniko, H. Gustafsson, C.-Å. Hjalt, R. Stenling, and A. Tärnvik

586 *Gemella haemolysans* Endocarditis
A. Frésard, V. P. Michel, X. Rueda, G. Aubert, G. Dorche, and F. Lucht

588 Hypothermia as a Presenting Sign of Brucellosis
Emilio Casariego Vales, Maria Jose Lopez Alvarez, Jose Varela Otero, and Juan Carlos Corredoira Sanchez

588 Meningitis Simultaneously Due to *Cryptococcus neoformans* and *Mycobacterium tuberculosis*
Fernando Gómez-Aranda, José Manuel López-Domínguez, Alfredo Muñoz Málaga, and Alberto Blanco Ollero

589 *Staphylococcus schleiferi:* A New Opportunistic Pathogen
Miguel Latorre, Pedro M. Rojo, Miren J. Unzaga, and Ramón Cisterna

591 Severity of Tetanus in Patients Older than 80 Years: Comparative Study with Younger Patients
M. Nolla-Salas and J. Garcés-Brusés

592 Catheter-Associated Sepsis Due to *Alcaligenes xylosoxidans* in a Child with AIDS
Theodore J. Cieslak and William V. Raszka

594 **Notices**

594 **Erratum**

595 **Statement of Editorial Policy**

Instructions to Authors

Volume 16 • Number 5 *May 1993*

Summary of Current Nomenclature, Taxonomy, and Classification of Various Microbial Agents

597 Introduction
Sydney M. Finegold

598 Nomenclature for Aerobic and Facultative Bacteria
David A. Bruckner and Paul Colonna

606 Microbiology Terminology Update: Clinically Significant Anaerobic Gram-Positive and Gram-Negative Bacteria (Excluding Spirochetes)
Paula Summanen

610 Selected Medically Important Fungi with Common Synonyms and Other Obsolete Names
Michael G. Rinaldi

612 Viral Taxonomy
Marjorie J. Miller

614 Classification of Human Parasites, Vectors, and Similar Organisms
Lynne S. Garcia

State-of-the-Art Clinical Article

616 Travelers' Diarrhea: Approaches to Prevention and Treatment
Charles D. Ericsson and Herbert L. DuPont

Tuberculosis Commentary

627 Statement of the Tuberculosis Committee of the Infectious Diseases Society of America
Emanuel Wolinsky

Clinical Infectious Disease Articles

629 Rocky Mountain Spotted Fever Complicated by Gangrene: Report of Six Cases and Review
Kathryn B. Kirkland, P. Kelly Marcom, Daniel J. Sexton, J. Stephen Dumler, and David H. Walker

635 Wound Botulism in a Patient with a Tooth Abscess: Case Report and Review
J. Todd Weber, Hewitt C. Goodpasture, Holly Alexander, S. Benson Werner, Charles L. Hatheway, and Robert V. Tauxe

640 Infection Due to *Rhizomucor pusillus:* Report of Four Cases in Patients with Leukemia and Review
G. St-Germain, A. Robert, M. Ishak, C. Tremblay, and S. Claveau

646 Pharmacokinetics of New Oral Cephalosporins, Including a New Carbacephem
M. Fassbender, H. Lode, T. Schaberg, K. Borner, and P. Koeppe

654 Subacute Measles Encephalitis in the Young Immunocompromised Host: Report of Two Cases Diagnosed by Polymerase Chain Reaction and Treated with Ribavirin and Review of the Literature
Mahmoud M. Mustafa, Steven D. Weitman, Naomi J. Winick, William J. Bellini, Charles F. Timmons, and Jane D. Siegel

661 Value of the Polymerase Chain Reaction for the Detection of *Toxoplasma gondii* in Cerebrospinal Fluid from Patients with AIDS
E. Schoondermark-van de Ven, J. Galama, C. Kraaijeveld, J. van Druten, J. Meuwissen, and W. Melchers

667 Native-Valve Endocarditis Due to *Neisseria sicca:* Case Report and Review
Sigurdur Heiddal, Jon Thor Sverrisson, Fridrik E. Yngvason, Nicholas Cariglia, and Karl G. Kristinsson

671 Open, Randomized Therapeutic Trial of Six Antimicrobial Regimens in the Treatment of Human Brucellosis
J. M. Montejo, I. Alberola, P. Glez-Zarate, A. Alvarez, J. Alonso, A. Canovas, and C. Aguirre

Review Articles

677 Fungal Infections in Solid-Organ Transplantation
Carlos V. Paya

689 Brainstem Encephalitis (Rhombencephalitis) Due to *Listeria monocytogenes:* Case Report and Review
Robert W. Armstrong and Peter C. Fung

Notes

703 Tension Pneumocephalus: Acute Neurological Deterioration Associated with Pleocytosis of the CSF
David Thomas and Newton Kendig

706 Bacteremia Due to *Pseudomonas aeruginosa* in Children with AIDS
Glenn Flores, Joseph J. Stavola, and Gary J. Noel

International Reports

709 Sex Difference in Chronic Hepatitis B Virus Infection: Studies of Serum HBeAg and Alanine Aminotransferase Levels in 10,431 Asymptomatic Chinese HBsAg Carriers
Chia-Ming Chu, I-Shyan Sheen, Shi-Ming Lin, and Yun-Fan Liaw

714 Neonatal Group B Streptococcal Infection in Mallorca, Spain
Juan A. Hervás, Lourdes González, José Gil, Lawrence C. Paoletti, Lawrence C. Madoff, and Vicente J. Benedí

719 Neonatal Sepsis and Meningitis in Mallorca, Spain, 1977–1991
Juan A. Hervás, Antolina Alomar, Francisco Salvá, Jordi Reina, and Vicente J. Benedí

Correspondence

725 Epidemiology of Blastomycosis in a Region of High Endemicity in North Central Wisconsin
Bradley J. Sullivan

725 Reply
Dennis J. Baumgardner and Brian P. Buggy

726 Chronic Parvovirus Infection?
Daniel S. Berman and Barry D. Wenglin

726 Reply
Howard Faden

726 Group C Streptococcal Subdural Empyema in a Healthy Man: Possible Complication of Pharyngitis
James F. Gettler and Wafaa El-Sadr

727 Tuberculous Chest Wall Abscess in Patients with AIDS
G. Cacho, M. Yebra, E. Berrocal, and J. Ruiz

728 Spontaneous Pneumococcal Peritonitis in Young Women
George A. W. Bruyn

729 Cutaneous Alternariosis in a Liver Transplant Recipient
T. Repiso, N. Martin, P. Huguet, J. Luelmo, M. Roca, U. González-Castro, C. Margarit, and A. Castells

730 Acute Pancreatitis Associated with the Administration of Meglumine Antimonate for the Treatment of Visceral Leishmaniasis
F. de Lalla, G. Pellizzer, L. Gradoni, M. Vespignani, M. Franzetti, and C. Stecca

731 Successful Treatment of Pneumonia Due to *Scedosporium apiospermum* with Itraconazole: Case Report
J. Nomdedéu, S. Brunet, R. Martino, A. Altés, V. Ausina, and A. Domingo-Albós

733 Amyloidosis and Infection Due to Human Immunodeficiency Virus
Jean-Philippe Méry, Michel Delahousse, and Dominique Nochy

734 *Aspergillus fumigatus* Pneumonia in Neutropenic Patients During Therapy with Fluconazole for Infection Due to *Candida* Species
Jacques F. Meis, J. Peter Donnelly, Jacomina A. Hoogkamp-Korstanje, and Ben E. De Pauw

735 Bacteremia Due to CDC Group II Pink Coccoid Bacilli
Ricardo A. Barzaga, Paul E. Schoch, and Burke A. Cunha

737 Menin"gio"cocci?
S. P. Borriello

737 Duplicate Submission and Publication of Correspondence
W. R. Gransden and Susannah J. Eykyn

737 Editor's Reply
Sydney M. Finegold

738 **Notices**

Instructions to Authors

Volume 16 • Number 6 *June 1993*

State-of-the-Art Clinical Article

741 Legionnaires' Disease
Paul H. Edelstein

Clinical Infectious Disease Articles

750 Nosocomial Outbreak Due to *Enterococcus faecium* Highly Resistant to Vancomycin, Penicillin, and Gentamicin
Sandra Handwerger, Beth Raucher, David Altarac, Jean Monka, Susan Marchione, Kavindra V. Singh, Barbara E. Murray, John Wolff, and Brian Walters

756 Cutaneous *Nocardia farcinica* Infection in a Nonimmunocompromised Patient: Case Report and Review
Theodore A. Schiff, Michael M. McNeil, and June M. Brown

761 Brucellar Sacroiliitis: Findings in 63 Episodes and Current Relevance
J. Ariza, M. Pujol, J. Valverde, J. M. Nolla, G. Rufi, P. F. Viladrich, J. M. Corredoira, and F. Gudiol

766 Meningitis Due to *Staphylococcus aureus* in Children
Laurence B. Givner and Sheldon L. Kaplan

772 Antibiotic Therapy for Enterobacter Meningitis: A Retrospective Review of 13 Episodes and Review of the Literature
Marcos A. Wolff, Clarence L. Young, and Reuben Ramphal

778 Consequences of Intravascular Catheter Sepsis
Paul M. Arnow, Estelita M. Quimosing, and Michael Beach

785 Virulence Characteristics of *Escherichia coli* in Nosocomial Urinary Tract Infection
Risto Ikäheimo, Anja Siitonen, Ulla Kärkkäinen, and P. Helena Mäkelä

792 Severe Invasive Group A Streptococcal Infections in Ontario, Canada: 1987–1991
B. Demers, A. E. Simor, H. Vellend, P. M. Schlievert, S. Byrne, F. Jamieson, S. Walmsley, and D. E. Low

801 Editorial Response: Severe Invasive Streptococcal Infections
Dennis L. Stevens

Notes

803 Successful Treatment of Simultaneous Pulmonary *Pseudallescheria boydii* and *Aspergillus terreus* Infection with Oral Itraconazole
Stuart L. Goldberg, Daniel J. Geha, William F. Marshall, David J. Inwards, and H. Clark Hoagland

806 Cervical Tuberculous Vertebral Osteomyelitis: Case Report and Discussion of the Literature
Rebecca Wurtz, Zafar Quader, David Simon, and Bradley Langer

Infectious Disease Rounds

809 Pneumonia, Aseptic Meningitis, and Leukopenia in a 28-Year-Old Man
Glenn E. Mathisen, Peter J. Weiss, and Charles A. Kennedy

Perspective

816 Guidelines for the Design and Conduct of AIDS Clinical Trials
Deborah J. Cotton, William G. Powderly, Judith Feinberg, Donald I. Abrams, Richard E. Chaisson, L. Joseph Wheat, Dianne M. Finkelstein, Virginia Tallman, Bonnie Zimmer, Richard Berzon, Ilana Fogelman, and John Phair

823 Editorial Response: Guidelines for AIDS Clinical Trials
Peter R. Wolfe

Correspondence

825 *Mycobacterium bovis* Infection of an Implantable Defibrillator Following Intravesical Therapy with Bacille Calmette-Guérin
David R. Stone, N. A. Mark Estes III, and Mark S. Klempner

826 Fluconazole for Cryptococcal Cellulitis
Chris Coulter, Susan M. Benson, and Michael Whitby

827 Reply
Daniel J. Anderson, Cynthia Schmidt, Jesse Goodman, and Claire Pomeroy

828 Acute Pubic Osteomyelitis
Daniel J. Sexton and Linda Heskestad

828 Reply
Barney S. Graham, Henrietta Ukwu, and Robert H. Latham

828 Maternal-Fetal Transmission of Human Immunodeficiency Virus
Jonathan Mermin and Reuben Granich

829 Reply
Gordon C. Douglas and Barry F. King

830 **Notices**

832 **Statement of Editorial Policy**

834 **Reviewers for Volume 16**

837 **Author Index to Volume 16**

841 **Subject Index to Volume 16**

853 **Tables of Contents for Volume 16**

Volume 16 • Supplement 4 *June 1993*

S159 Introduction
Sydney M. Finegold and Ellie J. C. Goldstein

Taxonomy and Indigenous Flora

S160 Ecophysiology and Taxonomy of *Bacteroides* and Related Taxa
Haroun N. Shah and Saheer E. Gharbia

S168 Recent Taxonomic Changes for Anaerobic Gram-Positive and Selected Gram-Negative Organisms
Paula Summanen

S175 The Anaerobic Microflora of the Human Body
David J. Hentges

S181 Lactobacilli and the Normal Human Anaerobic Microflora
Ann Lidbeck and Carl Erik Nord

S188 Characterization of an Unusual Microaerophilic Organism Closely Related to *Bacteroides gracilis*
Catherine A. Strong, Maureen McTeague, Marja-Liisa Väisänen, Joseph Herman, and Sydney M. Finegold

Pathogenicity

S190 Interactions Between Leukocytes and Anaerobic Bacteria in Polymicrobial Surgical Infections
Ori D. Rotstein

S195 Role of θ Toxin, a Sulfhydryl-Activated Cytolysin, in the Pathogenesis of Clostridial Gas Gangrene
Dennis L. Stevens and Amy E. Bryant

S200 Stimulation of B Lymphocytes by Lipopolysaccharides from Anaerobic Bacteria
Tor Hofstad, Nils Skaug, and Kjell Sveen

S203 Bacterial Mediators in Periodontal Disease
Walter J. Loesche

S211 Histopathologic Effects of Culture Filtrates of *Clostridium septicum* in Rabbit Intestinal Loops
S. W. Riddell, B. L. Miles, B. L. Skitt, and S. D. Allen

***Clostridium difficile* Enteric Disease**

S214 The Microecology of *Clostridium difficile*
Kenneth H. Wilson

S219 Purification of a Functional Receptor for *Clostridium difficile* Toxin A from Intestinal Brush Border Membranes of Infant Hamsters
Rial D. Rolfe and Woosun Song

S228 Role of the Laboratory in Investigations of *Clostridium difficile* Diarrhea
Jon S. Brazier

S234 Diagnosis and Monitoring of *Clostridium difficile* Infections with the Polymerase Chain Reaction
Sarah J. Kuhl, Yajarayma J. Tang, Lorena Navarro, Paul H. Gumerlock, and Joseph Silva, Jr.

S239 Elevated Levels of Serum Immunoglobulins in Asymptomatic Carriers of *Clostridium difficile*
Maury Ellis Mulligan, Stephen D. Miller, Lynne V. McFarland, Henry C. Fung, and Richard Y. Y. Kwok

S245 Use of Heat Shock for Culturing *Clostridium difficile* from Rectal Swabs
Philip A. Hanff, Dori F. Zaleznik, K. Craig Kent, Marc S. Rubin, Ellen Kelly, Jane Cote, and Joann Rosol-Donoghue

Systemic Infection Involving Anaerobes

S248 Anaerobic Bacterial Infections of the Lung and Pleural Space
John G. Bartlett

S256 Bacteriology of Anaerobic Pleuropulmonary Infections: Preliminary Report
M. Marina, C. A. Strong, R. Civen, E. Molitoris, and S. M. Finegold

S263 Empyema Due to *Bacteroides gracilis*: Case Report and In Vitro Susceptibilities to Eight Antimicrobial Agents
Daniel Lee, Ellie J. C. Goldstein, Diane M. Citron, and Stephen Ross

S266 Wound and Intraabdominal Infections: Microbiological Considerations and Approaches to Treatment
Ronald Lee Nichols and Jeffrey W. Smith

S273 The Normal Vaginal Flora, H_2O_2-Producing Lactobacilli, and Bacterial Vaginosis in Pregnant Women
Sharon L. Hillier, Marijane A. Krohn, Lorna K. Rabe, Seymour J. Klebanoff, and David A. Eschenbach

S282 Bacterial Vaginosis and Anaerobes in Obstetric-Gynecologic Infection
David A. Eschenbach

S288 Incidence and Clinical Significance of Anaerobic Bacteremia in a Community Hospital
Victoria A. Peraino, Sally A. Cross, and Ellie J. C. Goldstein

S292 Bacteriologic Findings in Peritonsillar Abscesses in Young Adults
H. Jousimies-Somer, S. Savolainen, A. Mäkitie, and J. Ylikoski

S299 Peritonsillar Abscess, Retropharyngeal Abscess, Mediastinitis, and Nonclostridial Anaerobic Myonecrosis: A Case Report
R. Civen, M.-L. Väisänen, and S. M. Finegold

Oral and Dental Infection

S304 Oral and Dental Infections with Anaerobic Bacteria: Clinical Features, Predominant Pathogens, and Treatment
Anne Tanner and Naomi Stillman

S310 Tetracycline Resistance in Periodontal Pathogens
Bente Olsvik and Fred C. Tenover

S314 Bacterial Colonization of Saliva and Plaque in the Elderly
M. Terpenning, W. Bretz, D. Lopatin, S. Langmore, B. Dominguez, and W. Loesche

S317 Detection of *Porphyromonas gingivalis* Associated with Human Periodontitis by DNA Methods
Jørgen Slots and Casey Chen

Isolation and Identification

S319 Rapid Presumptive Identification of *Bacteroides fragilis* Group Organisms with Use of 4-Methylumbelliferone-Derivative Substrates
J. Mangels, I. Edvalson, and M. Cox

S322 Increased Detection of Anaerobic Bacteria with Use of Fiberoptic Light
C. Smoczynski, M. Costello, M. Bliss, and N. K. Bharani

S325 Comparison of the Accu-CulShure System and a Swab Placed in a B-D Port-a-Cul Tube for Specimen Collection and Transport
E. J. Baron, M.-L. Väisänen, M. McTeague, C. A. Strong, D. Norman, and S. M. Finegold

Susceptibility Testing

S328 Susceptibility Testing of Anaerobic Bacteria—The State of the Art
Hannah M. Wexler

S334 In Vitro Susceptibility of Anaerobic Bacteria to Temafloxacin
P. M. Southern, Jr., and S. Patel

S335 A New Potent β-Lactamase Inhibitor, BRL 42715, with Inherent Activity Against *Bacteroides fragilis* Group Strains
Kenneth E. Aldridge

S339 Bactericidal Activity of Selected Antimicrobial Agents Against *Bilophila wadsworthia* and *Bacteroides gracilis*
Ellen J. Baron, Gwenael Ropers, Paula Summanen, and René J. Courcol

S344 Susceptibility of Anaerobes in Phase 3 Clinical Studies of Piperacillin/Tazobactam
N. V. Jacobus, F. W. Immermann, J. M. Gupte, and R. T. Testa

S349 Comparative Antibiotic Susceptibilities of Anaerobes Associated with Infections of the Female Reproductive Tract
Nancy E. Madinger, James A. McGregor, P. J. McKinney, Sallie T. Dembeck, Catherine S. Haskell, and Zaiga Johnson

S353 Comparative In Vitro Activity of Cefoxitin vs. Cefotetan Against Clinical Isolates of *Bacteroides* and *Prevotella* Species
Thomas J. Grossmeyer and Silas G. Farmer

S355 Time-Kill Studies of the Activity of Temafloxacin Against Four Strains of *Bacteroides*
William J. Brown and Seyed Moosavi

S357 Variation in the Susceptibility of *Bacteroides fragilis* Group Isolates from Six Chicago Hospitals
David W. Hecht, James R. Osmolski, and J. Paul O'Keefe

S361 Antibacterial Activity of Meropenem and Selected Comparative Agents Against Anaerobic Bacteria at Seven North American Centers
W. Sheikh, D. H. Pitkin, and H. Nadler

S367 Susceptibility Testing of Anaerobes with Etest
Anne Bolmström

S371 Susceptibility of Anaerobic Bacteria to β-Lactam Antibiotics in the United States
Caroline C. Johnson

S377 Patterns of Susceptibility to Fluoroquinolones Among Anaerobic Bacterial Isolates in the United States
Ellie J. C. Goldstein

S382 Susceptibility Patterns and Resistance to Imipenem in the *Bacteroides fragilis* Group Species in Japan: A 4-Year Study
Kaori Bandoh, Kazue Ueno, Kunitomo Watanabe, and Naoki Kato

S387 Antibiotic Susceptibility of Anaerobic Bacteria in Europe
K. Tunér and C. E. Nord

S390 Antimicrobial Resistance in *Bacteroides*
B. A. Rasmussen, K. Bush, and F. P. Tally

S401 Genetics of Resistance of *Bacteroides* Species to 5-Nitroimidazole
G. Reysset, A. Haggoud, and M. Sebald

General Topics Concerning Anaerobes

S404 Measurement of Electrical Bioimpedance for Studying Utilization of Amino Acids and Peptides by *Porphyromonas gingivalis, Fusobacterium nucleatum,* and *Treponema denticola*
Haroun N. Shah, Saheer E. Gharbia, and M. I. N. Zhang

S408 Physiology and Biochemistry of Glycyl-Prolyl Aminopeptidase Formation in *Bacteroides splanchnicus*
G. T. Macfarlane, S. Macfarlane, and G. R. Gibson

S409 Effect of a Redox Agent, Methylene Blue, on the Survival of *Porphyromonas gingivalis* In Vitro
Julie M. Fletcher and Michael Wilson

S411 Preliminary Evaluation of the Use of Methylene Blue, a Redox Dye, in the Treatment of Chronic Periodontitis
M. Gibson, M. Wilson, D. Strahan, and W. Harvey

S414 Lethal Photosensitization of Oral Anaerobic Bacteria
M. Wilson and J. Dobson

S416 Rapid Test for Detection of Antibodies to *Helicobacter pylori*
G. Anderson, M. M. Alemohammad, T. J. Foley, A. Colletti, A. Patel, and C. P. Dooley

S418 Formation of Growth Inhibitor(s) by *Salmonella* and *Escherichia coli* Under Strictly Anaerobic Conditions
M. Cox and K. Mortelmans

S420 Degradative Activities of Gut Anaerobes Studied in a Three-Stage Continuous Culture Model of the Colon
G. R. Gibson, S. Macfarlane, and G. T. Macfarlane

S422 The Agent of Tyzzer's Disease Is a *Clostridium* Species
A. Jane Duncan, Robert J. Carman, Gary J. Olsen, and Kenneth H. Wilson

S423 Investigating the Source of Amniotic Fluid Isolates of Fusobacteria
Gale B. Hill

S425 Prophylaxis of and Therapy for Polymicrobial Infection in Mice with Cefoxitin, Cefotetan, and Cefmetazole
Itzhak Brook

Special Article

S427 The Friendly Anaerobes
Victor Bokkenheuser

Consensus/Discussion Groups

S435 How Far Should a Clinical Laboratory Go in Identifying Anaerobic Isolates, and Who Should Pay?
Diane M. Citron and Peter C. Appelbaum

S439 Optimal Methods for Identifying *Clostridium difficile* Infections
Dale N. Gerding and Jon S. Brazier

S443 Bacteriologic Diagnosis in Anaerobic Pleuropulmonary Infections
John G. Bartlett

S446 Clinical Relevance of Susceptibility Testing of Anaerobic Bacteria
Jon E. Rosenblatt and Itzhak Brook

S449 Should Clinical Laboratories Adopt New Taxonomic Changes? If So, When?
Ellen Jo Baron and Stephen D. Allen

S451 What Important Problems Remain in the Areas of Anaerobic Bacteriology and Anaerobic Infections?
Francisco L. Sapico and Kenneth E. Aldridge

Anaerobes: Yesterday and Today

S453 A Century of Anaerobes: A Look Backward and a Call to Arms
Sydney M. Finegold